WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/7/12
API #: 47-039-05763

Farm name: Pugh Operator Well No.: Pugh #2

LOCATION: Elevation: 883.19' Quadrangle: Pocatalico

District: Union County: Kanawha
Latitude: 7100 Feet South of 38 Deg. 27 Min. 30 Sec.
Longitude 2900 Feet West of 81 Deg. 40 Min. 00 Sec.

Company: Viking Energy Corp.

Address: 8113 Sissonville Drl	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Charleston, WV 25320				
Agent: Michael Pinkerton				
Inspector: Terry Urban	13 3/8"	30'	30'	225-sx
Date Permit Issued: 11/30/2011	9 5/8"	300'	300'	225-sx
Date Well Work Commenced: 5/10/12	7"	2008'	2008"	150-SX
Date Well Work Completed: 6/10/12	4 1/2"	4,500'	4,500'	250-SX
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 4,922				
Total Measured Depth (ft): 4,922				
Fresh Water Depth (ft.): 130				
Salt Water Depth (ft.): 1300				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Berea Pay zone depth (ft) 2374-2382
Gas: Initial open flow 20 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 20 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 250 psig (surface pressure) after 24 Hours

Second producing formation Welch Pay zone depth (ft) 2270-2330
Gas: Initial open flow 20 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 20 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 250 psig (surface pressure) after 24 Hours

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Office of

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Michael Pinkerton
Signature

10-7-12
Date

12/14/2012

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes_____ No N_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Photo Density Log
Set a retrievable pl

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforate Berea w/16 shots from 2374-2382 KB 2 shots per ft. Break w/ 10bbls treated water. Start pad & pump as per enclosed schedule. Flush w/300 gal 15%Hcl (Drop 3 3/4 ball after 2 bbls acid) & 28.9 bbls treated water, land ball on 3.562 baffle @ 2342' KB.

Perforated Welch w/13 shot (SF) from 2270-2330" KB. Break w/5 bbls water & continue stimulation as per enlclosed schedule.

Flush 1 bbl short of top perf SD take ISIP 5 min and 10 min

Plug Back Details Including Plug Type and Depth(s): Set a retrievable plug below the Berea fracked formation.

Set another retrievable plug below the welch at 2340' and fracked formation. went back in and retrieved the plugs.

Formations Encountered: Top Depth / Bottom Depth

Surface:

Attached

12/14/2012

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas

Operators well name: Pugh # 2
Farm Name:

Company:
Address:

GEOLOGICAL RECORD

Description:	Top	Bottom
Clay/ sand	0	9
Sand/shales/silt	9	610
Sandy shales	610	718
Silty sand	718	800
Shale/sand/silts	800	1200
Salt Sand	1200	1531
Shale	1531	1600
Sand / some shaley stringers	1600	1750
Lime	1750	1780
Big Lime	1780	1950
Injun	1950	1931
Sandy shales	1931	2352
Cofffe shale	1931	2373
Berea	2373	2381
Shale	2381	3591
Huron shale	3591	4320
Shale	4320	4560
Rhinestreet	4560	4814
Shale	4814	4840
Marcellus Shale	4840	4902
Onandaga	4902	4923

Additional Comments:
Marcellus 1st Stg: Perforated w/ 22 shots (SF) 4846 - 4898' KB. (300 gal 10% Hcl). Total N2 - 902 mcf.
Stg 2 Rhinestreet. Perf w/ 20 shots (SF) from 4622 - 4734' KB. Pump 350 gal 7 1/2% Hcl acid. 800 mcf N2.
Stg 3 Huron/Dev. Shale. Perforate w/ 51 shots (SF) 3080 - 4166' KB. Pump 500 gal 7 1/2% Hcl acid. Total N2 1,001.6 mcf. **Stg 4**
Berea; perf w/ 16 shots from 2374 - 2382' KB. 75Q foam. 350 gals 15% Hcl acid. Could not get frac ball to hold. SD. Did not treat.

12/14/2012